

RTCU Product Matix 2020-1																																																																			
Product Name	Microprocessor	Encapsulation Dimensions  Length x Width x Height in mm	Encapsulation Type	Ingress Protection	NX32L Execution Architecture (Linux)		NX32 Execution Architecture		Platform SDK for user programs/modules in C		On-board Ethernet	On-board WiFi	On-board Bluetooth Classic and Bluetooth LE	LTE Cat.4 Full-Band Cellular Engine (World-Wide)	LTE Cat.4 Multi-Band Cellular Engine (EMEA)	LTE Cat. M1 / Cat. NB1 (IoT)	UMTS/HSPA engine (3G)	Quad Band GSM engine (2G)	Rail GSM-R	Dual SIM-card support	Gemalto eSIM compatible	RF ISM Communication (868 Mhz)	Optional Wireless: M-Bus, Zigbee and KNX	GNSS receiver with GPS/GLONASS/QZSS/GALILEO	GNSS receiver with GPS/GLONASS/QZSS	Dual cellular antenna (internal/external)	Interactive Voice Response (IVR) / DTMF	Number of Digital Input	Number of Digital Output (Solid State)	Number of Digital Output (Relay)	Number of Analog Input	Analog Input Resolution	Number of Flex Input (configurable analog/digital)	Number of Analog Output	Analog Output Resolution	IEC62053-31 input support (S0)	I/O Expandable with MODBUS modules	Headset connector	Digital Audio with Speaker/Microphone or Line-out	1-Wire support (Button, Temperature sensors etc.)	Number of User DIP-Switches	Full motion sensor suite - accelerometer/gyroscopemagnetometer	Advanced 3D G-Sensor/Accelerometer	Number of RS232 channels	Number of dedicated RS485 channels	Number of RS485 channels (shared with RS232)	Full CAN 2.0B Controller	USB Host port for expansion (GPS/LAN/Camera/RFID,etc)	Power Supply	Internal Battery back-up (nominal)	Advanced Power-management	Zero-power mode	SD-CARD with FAT32 file-system	Internal Flash-drive	RAM Memory	System Flash memory	Storage for automatic datalogger	Persistent Datalash	High Performance Persistent Memory (FRAM / VFRAM) (No Write Endurance Limitations)	Garmin Fleet Management / Navigation Enabled	Navigation and Messaging Platform support	LCD Touch screen with 240x160 pixels	Graphical LCD-Display with keyboard				
	RTCU NX-200				Cortex-A5 32 Bit 500 MHz	148 x 34 x 122 (w/o flange)	Aluminum	IP20	•	-	•	•	•	•	•	•	•	•	-	-	-	-	•	•	-	-	•	-	-	•	5	4	-	2	12b	4	-	-	-	•	-	•	•	2	•	-	2	1	-	2	2	8-36VDC	2.6 Ah	•	-	•	•	up-to 512 MB	128 MB	528 MB	1 MB	7.5 MB	20KB	•	-	•	-
RTCU NX-400	Cortex-A5 32 Bit 500 MHz	160 x 89 x 54	9M DIN (plastic)	IP20	•	-	•	•	•	•	•	•	-	-	-	-	-	-	-	•	-	-	-	-	•	-	8	8	-	4	12b	-	4	12b	•	•	-	•	•	3	-	-	2	2	-	1	1	8-36VDC	2 Ah	-	-	•	•	up-to 512 MB	128 MB	528 MB	1 MB	7.5 MB	20KB	-	-	•	-				
RTCU NX-400-LE	Cortex-A5 32 Bit 500 MHz	160 x 89 x 54	9M DIN (plastic)	IP20	•	-	•	•	•	•	•	•	-	-	•	-	-	-	-	-	•	-	-	-	-	•	8	8	-	4	12b	-	4	12b	•	•	-	•	•	3	-	-	2	2	-	1	1	8-36VDC	2 Ah	-	-	•	•	up-to 512 MB	128 MB	528 MB	1 MB	7.5 MB	20KB	-	-	•	-				
RTCU NX-900	Cortex-A5 32 Bit 500 MHz	130 x 180 x 50	Plastic	IP65	•	-	•	•	•	•	•	•	-	-	-	-	-	-	-	•	•	-	-	•	-	•	5	-	4	4	12b	-	4	12b	•	•	-	•	•	3	-	-	2	2	-	-	-	1	1	8-36VDC 100-260VAC	2 Ah	•	-	•	•	up-to 512 MB	128 MB	528 MB	1 MB	7.5 MB	20KB	-	-	•	-		
RTCU MX2 turbo	ARM7 32 Bit 48 MHz	91 x 31 x 131	Aluminum	IP30	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	-	-	•	5	4	-	2	12b	-	-	-	-	-	•	•	-	•	•	2	-	•	2	1	-	1	-	1	8-36VDC	2 Ah	•	-	•	•	8 MB	2 MB	4.5 MB	1 MB	7.5 MB	20KB	•	•	-	-	
RTCU MX2 turbo-2G	ARM7 32 Bit 48 MHz	91 x 31 x 131	Aluminum	IP30	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	-	-	•	5	4	-	2	12b	-	-	-	-	-	•	•	-	•	•	2	-	•	2	1	-	1	-	1	8-36VDC	2 Ah	•	-	•	•	8 MB	2 MB	4.5 MB	1 MB	7.5 MB	20KB	•	•	-	-	
RTCU MX2 encore <i>with all on-demand options.</i>	ARM7 32 Bit 48 MHz	91 x 31 x 131	Aluminum	IP30	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	-	-	•	5	4	-	2	12b	-	-	-	-	-	•	•	-	•	•	-	-	1	1	-	1	-	1	8-36VDC	2 Ah	•	-	-	•	•	4 MB	2 MB	4.5 MB	1 MB	3.5 MB	20KB	•	-	-	-	
RTCU CX1 warp 3G <i>with all on-demand options.</i>	ARM7 32 Bit 48 MHz	92x 30 x 58	Plastic	IP66	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	•	-	-	-	-	2	2	-	1	10b	-	-	-	-	-	-	•	-	-	•	-	1	-	-	-	-	1	-	-	8-36VDC	0.9 Ah	•	-	•	•	4 MB	1 MB	2.2 MB	1 MB	3.5 MB	8KB	•	-	-	-	
RTCU CX1 warp-c 3G <i>with all on-demand options.</i>	ARM7 32 Bit 48 MHz	92x 30 x 58	Plastic	IP66	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	•	-	-	-	-	2	2	-	1	10b	-	-	-	-	-	-	•	-	-	•	-	-	-	1	-	-	1	-	1	8-36VDC	0.9 Ah	•	-	•	•	4 MB	1 MB	2.2 MB	1 MB	3.5 MB	8KB	-	-	-	-	
RTCU DX4i pro-2G	ARM7 32 Bit 48 MHz	157 x 58 x 86	M36 DIN (plastic)	IP20	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	-	-	•	8	8	-	4	12b	-	4	10b	•	•	-	•	•	-	•	•	3	-	-	2	1	1	1	-	1	8-36VDC	2 Ah	•	-	•	•	4 MB	1 MB	2.2 MB	1 MB	3.5 MB	8KB	-	-	-	•
RTCU DX4i pro-3G	ARM7 32 Bit 48 MHz	157 x 58 x 86	M36 DIN (plastic)	IP20	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	-	-	•	8	8	-	4	12b	-	4	10b	•	•	-	•	•	-	•	•	3	-	-	2	1	1	1	-	1	8-36VDC	2 Ah	•	-	•	•	4 MB	1 MB	2.2 MB	1 MB	3.5 MB	8KB	-	-	-	•
RTCU DX4i pro-LTE	ARM7 32 Bit 48 MHz	157 x 58 x 86	M36 DIN (plastic)	IP20	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	•	-	-	-	-	•	8	8	-	4	12b	-	4	10b	•	•	-	•	•	-	•	•	3	-	-	2	1	1	1	-	1	8-36VDC	2 Ah	•	-	•	•	4 MB	1 MB	2.2 MB	1 MB	3.5 MB	8KB	-	-	-	•
RTCU AX9 turbo	ARM7 32 Bit 48 MHz	130 x 180 x 50	Plastic	IP65	•	•	•	-	-	-	-	-	-	-	-	-	•	-	-	-	•	•	-	-	•	•	5	-	4	4	12b	-	4	10b	•	•	-	•	•	-	•	•	3	-	-	2	1	1	-	-	8-36VDC 100-260VAC	2 Ah	•	-	•	•	8 MB	2 MB	4.5 MB	1 MB	7.5 MB	20KB	•	-	-	-	
RTCU AX9 encore <i>with RS485 on-demand option.</i>	ARM7 32 Bit 48 MHz	130 x 180 x 50	Plastic	IP65	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	-	•	•	5	-	4	2	12b	-	-	-	-	-	•	•	-	•	•	3	-	-	1	-	1	-	-	8-36VDC 100-260VAC	1 Ah	•	-	•	•	4 MB	2 MB	4.5 MB	1 MB	3.5 MB	20KB	•	-	-	-		
RTCU SX1 series	ARM7 32 Bit 48 MHz	175 x 42/54 x 126	Plastic	IP65	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	•	-	-	•	2	2	-	2	10b	-	-	-	-	-	-	•	•	-	•	•	3	-	-	1	-	-	-	-	8-36VDC	Up to 58 Ah	•	•	•	0.5 MB	1 MB	2.2 MB	0.5 MB	0.5 MB	8KB	•	-	-	-			